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#### Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

# Listing of Claims:

# 1. (Previously presented) A compound of formula (I)

in which:

A represents thiophene, furan, pyrrole, imidazole, thiazole or oxazole;

R<sup>1</sup> represents a phenyl group or a 5- to 7-membered heteroaromatic ring containing one to three heteroatoms selected independently from oxygen, nitrogen or sulfur; said phenyl or heteroaromatic ring being optionally substituted by one or more substituents selected independently from halogen, cyano, nitro, -NR3R4, -CONR5R6, -COOR7, -NR8COR9, -SR10,  $-S(O)_{m}R^{10}, -S(O)_{2}NR^{5}R^{6}, -NR^{8}SO_{2}R^{10}, C_{1}-C_{6} \ alkyl, \ trifluoromethyl, -(CH_{2})_{n}R^{11}, -O(CH_{2})_{n}R^{11} \ or \ alkyl, \ trifluoromethyl, -(CH_{2})_{n}R^{11}, -O(CH_{2})_{n}R^{11}, -O(CH_{2})_{n}R^{11},$ -OR12;

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R<sup>2</sup> represents hydrogen, halogen, cyano, nitro, -NR<sup>13</sup>R<sup>14</sup>, -CONR<sup>15</sup>R<sup>16</sup>, -COOR<sup>17</sup>,  $-NR^{18}COR^{19}$ ,  $-S(O)_mR^{20}$ ,  $-S(O)_2NR^{15}R^{16}$ ,  $-NR^{18}SO_2R^{20}$ ,  $C_1-C_2$  alkyl, trifluoromethyl,  $C_2-C_3$ alkenyl,  $C_2$ - $C_3$  alkynyl, trifluoromethoxy,  $C_1$ - $C_2$  alkoxy or  $C_1$ - $C_2$  alkanoyl;

X represents oxygen or sulfur;

each of R<sup>3</sup>, R<sup>4</sup>, R<sup>5</sup>, R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup>, R<sup>9</sup>, R<sup>10</sup> and R<sup>12</sup> independently represent a hydrogen atom or C<sub>1</sub>-C<sub>6</sub> alkyl;

R<sup>11</sup> represents NR<sup>21</sup>R<sup>22</sup> where R<sup>21</sup> and R<sup>22</sup> are independently hydrogen or C<sub>1</sub>-C<sub>6</sub> alkyl optionally substituted by C1-C4 alkoxy; or R21 and R22 together with the nitrogen atom to which they are attached form a 5- or 6-membered saturated ring optionally containing a further O, S or NR<sup>23</sup> group where R<sup>23</sup> is hydrogen or C<sub>1</sub>-C<sub>6</sub> alkyl; or R<sup>11</sup> represents OR<sup>24</sup> where R<sup>24</sup> represents  $C_1$ - $C_6$  alkyl;

each of R<sup>13</sup>, R<sup>14</sup>, R<sup>15</sup>, R<sup>16</sup>, R<sup>17</sup>, R<sup>18</sup>, R<sup>19</sup> and R<sup>20</sup> independently represent a hydrogen atom or C<sub>1</sub>-C<sub>2</sub> alkyl;

m represents an integer 0, 1 or 2;

n represents an integer 2, 3 or 4;

and optical isomers, racemates, and tautomers thereof and pharmaceutically acceptable salts or solvates thereof:

### provided that:

when A represents thiophene, furan or pyrrole, then R<sup>1</sup> is not 4-pyridinyl or 3-pyrazolyl; and

when A represents oxazole, thiazole or imidazole, then R<sup>1</sup> is not 3-pyridinyl or 5pyrimidyl.

2. (Original) A compound of formula (I), according to claim 1, wherein X represents oxygen.

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3. (Previously presented) A compound of formula (I), according to Claim 1, in which the group A is substituted as shown below in formula (Ia), where B and D are selected from CR<sup>2</sup>, S, O and NR<sup>25</sup>, where R<sup>2</sup> is as defined in Claim 1 and R<sup>25</sup> is hydrogen or C<sub>1</sub>-C<sub>6</sub> alkyl:

$$X \longrightarrow NH_2$$
 $A \longrightarrow O$ 
 $NH_2$ 
 $A \longrightarrow O$ 
 $NH_2$ 

- 4. (Previously presented) A compound according to claim 1 in which the ring A is thiophene.
- 5. (Previously presented) A compound according to claim 1 in which R<sup>1</sup> represents optionally substituted phenyl.
- 6. (Previously presented) A compound according to claim 1 in which R<sup>2</sup> represents H or methyl.
  - 7. (Original) A compound according to claim 6 in which R<sup>2</sup> represents H.
  - 8. (Original) A compound of formula (I), according to claim 1, selected from:
    - 3-[(aminocarbonyl)amino]-5-phenyl-2-thiophenecarboxamide:
    - 3-[(aminocarbonyl)amino]-5-(3-chlorophenyl)-2-thiophenecarboxamide;
    - 3-[(aminocarbonyl)amino]-5-(4-fluorophenyl)-2-thiophenecarboxamide;
    - 3-[(aminocarbonyl)amino]-5-(4-chlorophenyl)-2-thiophenecarboxamide;
    - 3-[(aminocarbonyl)amino]-5-(4-isobutylphenyl)-2-thiophenecarboxamide;
    - 3-[(aminocarbonyl)amino]-5-(2-thienyl)-2-thiophenecarboxamide;
    - 3-[(aminocarbonyl)amino]-5-(4-methoxyphenyl)-2-thiophenecarboxamide:

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3-[(aminocarbonyl)amino]-5-(3-thienyl)-2-thiophenecarboxamide;

- 3-[(aminocarbonyl)amino]-5-(3-hydroxyphenyl)-2-thiophenecarboxamide;
- 3-[(aminocarbonyl)amino]-5-(2-chlorophenyl)-2-thiophenecarboxamide:
- 3-[(aminocarbonyl)amino]-5-(2-methoxyphenyl)-2-thiophenecarboxamide;
- 3-[(aminocarbonyl)amino]-5-{2-[2-(dimethylamino)ethoxy]phenyl}-2-thiophenecarboxamide;
- 3-[(aminocarbonyl)amino]-5-{4-[2-(dimethylamino)ethoxy]phenyl}-2-thiophenecarboxamide;
- 3-[(aminocarbonyl)amino]-5-(3-methoxyphenyl)-2-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-5-phenyl-3-thiophenecarboxamide;
- 3-[(aminocarbonyl)amino]-5-{4-[2-(1-morpholinyl)ethoxy]phenyl}-2-thiophenecarboxamide;
- 3-[(aminocarbonyl)amino]-5-{4-[2-(1-pyrrolidinyl)ethoxy]phenyl}-2-thiophenecarboxamide;
- 3-[(aminocarbonyl)amino]-5-{4-[2-(1-piperidinyl)ethoxy]phenyl}-2-thiophenecarboxamide;
- 3-[(aminocarbonyl)amino]-5-{4-[3-(dimethylamino)propoxy]phenyl}-2-thiophenecarboxamide;
- 3-[(aminocarbonyl)amino]-5-{3-[2-(dimethylamino)ethoxy]phenyl}-2-thiophenecarboxamide;
- 3-[(aminocarbonyl)amino]-5-{3-[2-(1-morpholinyl)ethoxy]phenyl}-2-thiophenecarboxamide;
- 3-[(aminocarbonyl)amino]-5-{3-[2-(1-pyrrolidinyl)ethoxy]phenyl}-2-thiophenecarboxamide;

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> 3-[(aminocarbonyl)amino]-5-{3-[2-(1-piperidinyl)ethoxy]phenyl}-2thiophenecarboxamide;

3-[(aminocarbonyl)amino]-5-{3-[3-(dimethylamino)propoxy]phenyl}-2thiophenecarboxamide;

3-[(aminocarbonyl)amino]-5-{2-[2-(1-morpholinyl)ethoxy]phenyl}-2thiophenecarboxamide;

3-[(aminocarbonyl)amino]-5-{2-[2-(1-pyrrolidinyl)ethoxy]phenyl}-2thiophenecarboxamide;

3-[(aminocarbonyl)amino]-5-{2-[2-(1-piperidinyl)ethoxy]phenyl}-2thiophenecarboxamide;

3-[(aminocarbonyl)amino]-5-{2-[3-(dimethylamino)propoxy]phenyl}-2thiophenecarboxamide;

2-[(aminocarbonyl)amino]-4-methyl-5-(4-chlorophenyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-4-methyl-5-(4-methylphenyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-4-ethyl-5-phenyl-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-4-methyl-5-(4-methoxyphenyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-4-methyl-5-(4-fluorophenyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-4-methyl-5-(3-fluorophenyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-4-methyl-5-(3-methoxyphenyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-4-methyl-5-(3-chloro-4-methoxyphenyl)-3thiophenecarboxamide;

2-[(aminocarbonyl)amino]-4-methyl-5-(2-chlorophenyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-4-methyl-5-(3-trifluoromethylphenyl)-3-thiophenecarboxamide;

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2-[(aminocarbonyl)amino]-4-methyl-5-(3-methyl-4-methoxyphenyl)-3-thiophenecarboxamide;
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- 2-[(aminocarbonyl)amino]-4-methyl-5-(3,5-dimethoxyphenyl)-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-methyl-5-(2,3-dimethoxyphenyl)-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-methyl-5-(4-isopropylphenyl)-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-methyl-5-(3,4,5-trimethoxyphenyl)-3-thiophenecarboxamide:
- 2-[(aminocarbonyl)amino]-4-methyl-5-(2-pyridyl)-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]- 5-[2-(5-methoxypyridyl)]-4-methyl-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-methyl-5-(4-pyrimidyl)-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-methyl-5-(2-pyrazinyl)-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-methyl-5-(3,4-dichlorophenyl)-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-methyl-5-(4-cyanophenyl)-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-methyl-5-(4-hydroxyphenyl)-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-methyl-5-(4-[2-(1-piperidinyl)ethoxy]phenyl)-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-methyl-5-(4-[2-(diethylamino)ethoxy]phenyl)-3-thiophenecarboxamide;
- 2-[aminocarbonyl)amino]-4-methyl-5-(2-furyl)-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-trifluoromethyl-5-phenyl-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-methyl-5-(2-(4-methylthiazolyl))-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-methyl-5-phenyl-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-4-methyl-5-(3-methyl-isoxazol-5-yl)-3-thiophenecarboxamide;
- 2-[(aminocarbonyl)amino]-5-(4-cyanophenyl)-3-thiophenecarboxamide;

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2-[(aminocarbonyl)amino]-5-(4-trifluoromethylphenyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(2,4-difluorophenyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(2-pyridyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(3-pyridyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-[5-(2-methoxypyridyl]-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-[5-(2,4-dimethoxypyrimidyl)]-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(4-hydroxyphenyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(4-chlorophenyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(4-methanesulphonylphenyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(2-(N-t-butoxycarbonyl)pyrrolyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(2-(5-cyanothienyl))-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(3,5-dimethyl-isoxazol-4-yl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(3-furyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(2-pyrrolyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(5-pyrimidinyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(2-(5-chlorothienyl))-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-[2-(5-trifluoromethylpyridyl)]-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-[2-(5-bromopyridyl)]-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(2-(5-cyanofuryl))-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(4-[2-(1-piperidinyl)ethoxy]phenyl)-3-

thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(4-[2-(1-(2,2,6,6-tetramethyl)piperidinyl)ethoxy]phenyl)-3-thiophenecarboxamide;

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2-[(aminocarbonyl)amino]-5-(4-(thiazol-4-yl-methoxy)phenyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(4-[2-(dimethylamino)ethoxy]phenyl)-3-

thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(4-[2-(diethylamino)ethoxy]phenyl)-3-

thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(4-[2-(1-morpholinyl)ethoxy]phenyl)-3-

thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(2-furyl)-3-thiophenecarboxamide;

2-[(aminocarbonyl)amino]-5-(2-(5-methylfuryl))-3-thiophenecarboxamide;

5-[(aminocarbonyl)amino]-2-(3,5-dichlorophenyl)-1,3-oxazole-4-carboxamide;

5-[(aminocarbonyl)amino]-2-(4-trifluoromethylphenyl)-1,3-oxazole-4-carboxamide;

2-[(aminothiocarbonyl)amino-5-phenyl-3-thiophenecarboxamide;

and pharmaceutically acceptable salts and solvates thereof.

- 9. (Previously presented) A process for the preparation of a compound of formula (I), according to claim 1, which comprises:
- (a) reaction of a compound of formula (II):

wherein A,  $R^1$  and  $R^2$  are as defined in Claim 1 with an isocyanate (X = O) or an isothiocyanate (X = S); or

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(b) reaction of compound of formula (III) with a compound of formula (IV)

wherein A, X, R<sup>1</sup> and R<sup>2</sup> are as defined in Claim 1 and LG represents a leaving group; or (c) reaction of compound of formula (V) with a compound of formula (VI)

$$R^{1}$$
-LG 
$$\begin{array}{c} X \longrightarrow NH_{2} \\ NH \longrightarrow NH_{2} \\ NH_{2} \end{array}$$
 (V) 
$$(VI)$$

wherein A, X, R<sup>1</sup> and R<sup>2</sup> are as defined in Claim 1 and LG represents a leaving group; and where necessary converting the resultant compound of formula (I), or another salt thereof, into a pharmaceutically acceptable salt thereof; and where desired converting the resultant compound of formula (I) into an optical isomer thereof.

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10. (Previously presented) A pharmaceutical composition comprising a compound of formula (I), or a pharmaceutically acceptable salt or solvate thereof, as claimed in claim 1, in association with a pharmaceutically acceptable adjuvant, diluent or carrier.

11. (Previously presented) A process for the preparation of a pharmaceutical composition which comprises mixing a compound of formula (I), or a pharmaceutically acceptable salt or solvate thereof, as claimed in claim 1 with a pharmaceutically acceptable adjuvant, diluent or carrier.

#### 12.-19. Canceled

- 20. (Previously presented) A method of treating an IKK2 mediated disease which comprises administering to a patient a therapeutically effective amount of a compound of formula (I), or a pharmaceutically acceptable salt or solvate thereof, as claimed in claim 1.
- 21. (Previously presented) A method of treating an inflammatory disease in a patient suffering from, or at risk of, said disease, which comprises administering to the patient a therapeutically effective amount of a compound of formula (I), or a pharmaceutically acceptable salt or solvate thereof, as claimed in claim 1.
  - 22. (Original) A method according to claim 21, wherein the disease is asthma.
- 23. (Original) A method according to claim 21, wherein the disease is rheumatoid arthritis.
  - 24. (Original) A method according to claim 21, wherein the disease is multiple sclerosis.

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25. (Original) A method according to claim 21, wherein the disease is chronic obstructive pulmonary disease.

26. (Previously presented) A pharmaceutical composition comprising a compound of formula (I), or a pharmaceutically acceptable salt or solvate thereof, as claimed in claim 8, in association with a pharmaceutically acceptable adjuvant, diluent or carrier.